

More Probability

STA 220 – Lecture #6

Basic Probability Definition

- Probability of an event
 - Calculated by dividing number of ways an event can occur by number of total possible outcomes

$$P(\text{event}) = \frac{\text{\# of ways}}{\text{total \# of}}$$

Independence

- Two events A and B are **independent** if knowing that one occurs the probability that the other occurs.
 - Example: Suppose event A is the event that you toss a penny and it comes up heads and event B is the event that you toss a nickel and it also comes up heads